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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,746	08/19/2003	Sofia Hermansson	018798-168	3752
21839 7590 01/12/2007 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE	BOX 1404	,	HAND, MELANIE JO	
ALEXANDRIA, VA 22313-1404		•	ART UNIT	PAPER NUMBER
		•	3761	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/642,746	HERMANSSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Melanie J. Hand	3761			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		•			
Responsive to communication(s) filed on 10 October 2006. 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

Applicant's arguments, see Remarks, filed November 1, 2006, with respect to the rejection of claims 55-58 under 35 U.S.C. 103 have been fully considered and are persuasive. The rejection of claims 55-58 under 365 U.S.C. 103 has been withdrawn.

In response to applicant's argument that the device of the combined teaching of Truitt and Glantz does not solve the address or solve problem that is addressed and belived to be solved by the claimed invention, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). In response to applicant's argument that there is no suggestion to combine the references because of the perceived deficiency of the combined teaching of Truitt and Glantz with respect to addressing the problem posed and believed to be solved by the claimed invention, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, as cited in the previous Office action mailed

September 1, 2006, "[f]urther, it would have been obvious to substitute the catheter of Truitt with a catheter as taught by Glantz to have a catheter that is of a length that may be advanced in a large or great vein, i.e. a catheter that is at least 25 cm, wherein the catheter that is used to be not greater than 75 cm long, since it would have been obvious to one having ordinary skill in the art to use a catheter having any of these dimensions, since it has been held that the discovering of an optimum value of a result effective variable involves only routine skill in the art.

Furthermore, it is well known, as taught by Glantz, that the determination of the length of a catheter used in a medical procedure is a determination based on a patient-by-patient basis to customize the size based on the patient's anatomy and any other medical conditions that may need to be taken into consideration." (Office action, Page 4, ¶2 — Page 5, ¶1) Thus, Examiner maintains the rejection of claims 53 and 54 over Truitt in view of Glantz.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 55 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It would be unclear to one of ordinary skill how the determination is made that amount of blood drawn is insufficient, as applicant has not claimed, or described fully in the disclosure, any means or structural feature that accomplishes this method step.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 53-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Truitt et al. (U.S. Patent No. 5,910,252) in view of Glantz (U.S. Patent No. 5,749,835).

With respect to claims 53,54: Truitt teaches of a method for treating blood extracorporeal, such as by hemofiltration, hemodialysis (i.e. dialysis), or ultrafiltration. The system used to perform the treatment method comprises a catheter inserted into a vein or artery of a patient, which serves as a blood withdrawal line, and a device line (i.e. withdrawal blood tube) that supplies the withdrawn blood to the apparatus to process the blood according to a selected treatment protocol. With respect to applicant's limitation of the catheter being inserted into a large vein, great vein, or vena cava to access a reservoir of blood for continuous blood withdrawal, this step is considered to be met since the vein catheterized may be considered a large vein. The system also includes a pump connected to the withdrawal line and allows for continuous treatment by extracorporeally removing solutes from the blood. For example, in ultrafiltration the removal is excess water. The pump creates a negative pressure in the catheter, which is higher than the blood pressure in the vein or artery in which the catheter is inserted. The pump supplying negative pressure is seen to be equivalent to applying suction. With respect to claim 55, Truitt teaches that the claimed blood flow through the needle or catheter being less than 40 milliliter per minute, it is the position of the examiner that the blood treatment system of Truitt is capable of performing these rates since the system includes a programmable controller that regulates the pumps of the system. Such flow rates would have been obvious to one of

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ordinary sill at the time of the invention since these procedures are always modified on a patient-by-patient basis.

Glantz discloses a PICC catheter for use or placement within a peripheral vein, such as the cephalic vein, via the patient's arm. The catheter is then moved to place the tip in a desired location, such as in the superior vena cava. Glantz also teaches that, as is well known in the art, the caregiver determines the length the PICC is needed on a per patient basis (see col. 5, lines 38-63 and figures 5, 6 & 6A). With respect to the claim 54, it would have been obvious to choose a catheter having a length of 35 cm to 40 cm that may be advanced into a large or great vein since it would have been obvious to choose a length within this range, since it has been held that the discovering of an optimum value of a result effective variable involves only routine skill in the art. Furthermore, it is well known in the art, as well as taught by Glantz, that the determination of length of a PICC catheter, as well as any other catheter type used in a medical procedure, is a length determined to equal the distance between the entry site and the desired location of the catheter tip. Glantz also teaches that, as is well known in the art, the caregiver determines the length the PICC is needed on a per patient basis (see col. 5, lines 38-63 and figures 5, 6 & 6A). Therefore, this determination must be based on a patient-by-patient basis to customize the size based on the patient's anatomy and any other medical conditions that may need to be taken into consideration.

It would have been obvious to one having ordinary skill in the art, at the time of the invention, to modify the method of Truitt to include the step of inserting the catheter into a peripheral vessel, such as the cephalic artery, into the vena cava to withdraw blood into the extracorporeal circuit as the connection site. Further, it would have been obvious to substitute the catheter of Truitt with a catheter as taught by Glantz to have a catheter that is of a length that may be advanced in a large or great vein, the that is used to be a catheter that is at least 25

cm, the catheter that is used to be not greater than 75 cm long, since it would have been obvious to one having ordinary skill in the art to use a catheter having any of these dimensions, since it has been held that the discovering of an optimum value of a result effective variable involves only routine skill in the art. Furthermore, it is well known, as taught by Glantz, that the determination of length of a catheter used in a medical procedure is a determination based on a patient-by-patient basis to customize the size based on the patient's anatomy and any other medical conditions that may need to be taken into consideration.

Claims 55-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Truitt et al. ('252) in view of Glantz ('835) as applied to claims 53 and 54 above and further view of Pizziconi et al (U.S. Patent No. 4,832,034)

With respect to **claim 55:** The combined teaching of Truitt and Glantz fails to disclose the step of determining that the blood flow rate is insufficient if said blood flow rate through a needle is less than 40 milliliter per minute. Pizziconi teaches a blood filtration process having a blood flow rate of 60 ml/minute. Pizziconi teaches that filtration rate increases moderately as blood flow rate increases, therefore it would be obvious to one of ordinary skill in the art to make a determination that blood flow rate is insufficient at a flow rate of less than 40 mL per minute as a higher flow rate would achieve a more desired filtration rate as taught by Pizziconi. (Col. 26, lines 50-62, Figs. 6,8)

With respect to **claim 56-59**: Pizziconi teaches ultrafiltration (claims 56,59, Fig. 9 of Pizziconi), hemofiltration (claim 57, Fig. 6 of Pizziconi), and dialysis (claim 58, Fig. 6 of Pizziconi) and teaches that a catheter is placed in a vein for five hours. Pizziconi teaches that increased

filtration time improves filtration rate, therefore it would be obvious to one of ordinary skill in the art to modify the method taught by the combined teaching of Truitt and Glantz by positioning a catheter in a patient's vein for five hours to improve filtration rate as is taught by Pizziconi.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 55-59 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 28-30 of U.S. Patent No. 6,685,664. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to a method for treating blood from a patient comprising the steps of withdrawing blood through a withdrawal needle, replacing the needle with a blood withdrawal catheter, drawing blood from a reservoir into the withdrawal catheter and applying a suction pressure to the withdrawal blood tube, wherein the catheter is positioned in a vein for a period of at least four hours.

Conclusion

This is a continued examination of the instant Application. All claims are drawn to the same invention claimed and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS**ACTION IS MADE FINAL even though it is a first action in this case. See MPEP § 706.07(b).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The examiner can normally be reached on Monday-Thursday 8:00-5:30, alt. Fridays 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melanie J Hand Examiner Art Unit 3761

MJH

TATYANA ZALUKAEVA SUPERVISORY PRIMARY EXAMINER